CLUX-11CA

HDMI Audio Inserter

Operation Manual

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. Cypress Technology assumes no responsibility for any infringements of patents or other rights of third parties which may result from its use.

Cypress Technology assumes no responsibility for any inaccuracies that may be contained in this document. Cypress also makes no commitment to update or to keep current the information contained in this document.

Cypress Technology reserves the right to make improvements to this document and/or product at any time and without notice.

COPYRIGHT NOTICE

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or any of its part translated into any language or computer file, in any form or by any means—electronic, mechanical, magnetic, optical, chemical, manual, or otherwise—without express written permission and consent from Cypress Technology.

© Copyright 2011 by Cypress Technology.

All Rights Reserved.

Version 1.1 August 2011

TRADEMARK ACKNOWLEDGMENTS

All products or service names mentioned in this document may be trademarks of the companies with which they are associated.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VR0	26/08/10	Preliminary Release
VR1	25/04/11	Support 3D Signal
VR2	20/07/11	ID Dimension
VR3	14/08/11	LED Color
VS4	27/12/12	Updated format/diagrams

CONTENTS

1. Introduction 1
2. Applications 1
3. Package Contents 1
4. System Requirements 1
5. Features 1
6. Operation Controls and Functions 2
6.1 Top Panel 2
6.2 Right Panel 2
6.3 Left Panel 3
6.4 Front Panel 3
6.5 Rear Panel 3
7. Connection Diagram 4
8. Specifications 5
9. Acronyms 6

1. INTRODUCTION

The HDMI Audio Inserter lets you insert an external audio signal into your HDMI or DVI signal path. The unit allows you to insert stereo and multi-channel surround sound signals to give users the capability to select audio formats while extending your HDMI signal.

2. APPLICATIONS

- Embeds external audio into HDMI signal
- Integrates audio and DVI video to HDMI signal output
- Replaces audio in the original HDMI signal by other input sources

3. PACKAGE CONTENTS

- HDMI Audio Inserter
- 5 V/1 A Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

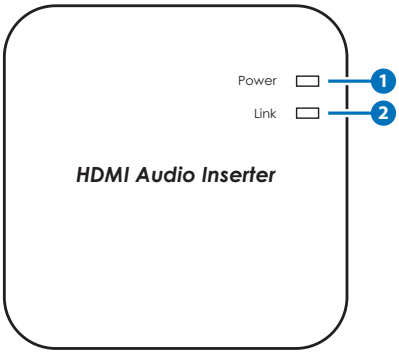
Source equipment such as PC/Laptop or DVD player with connection cables and HD monitor or LCD TV with HDMI cables.

5. FEATURES

- Compliant with HDMI, HDCP 1.2 and DVI 1.0
- Supports HDMI audio sampling rates up to 192 kHz
- Supports Optical S/PDIF audio sampling rate up to 48 kHz
- Supports TMDS clock frequency up to 225 MHz
- Supports high-bit-rate (HBR) audio
- HDMI cable distance tested with 1080p at 8-bit or 12-bit resolution, the input and output can run up to 15 meters (8-bit) or 10 meters (12-bit)
- Low power consumption
- Supports 3D signal

6. OPERATION CONTROLS AND FUNCTIONS

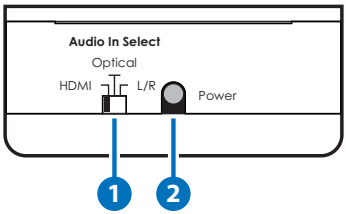
6.1 Top Panel



1 **Power LED:** The LED will illuminate in blue when the unit is connected to the power supply and switched on.

2 **Link LED:** The LED will illuminate in green when both the source and the display are connected and have established a link. This LED will also blink once while the power is turned on.

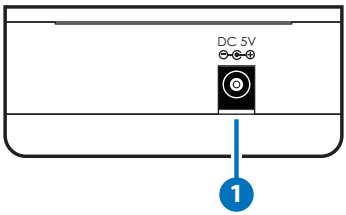
6.2 Right Panel



1 **Audio In Select:** Allows users to select among 3 different audio input options. Switch among the original HDMI audio, Digital Audio (Optical) and Analog Stereo (L/R).

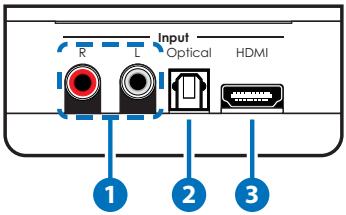
2 **Power:** Switches the unit ON or puts the device into STANDBY mode.

6.3 Left Panel



1 **DC 5V:** Connect the 5V DC power supply into the unit and plug the adaptor to an AC wall outlet.

6.4 Front Panel

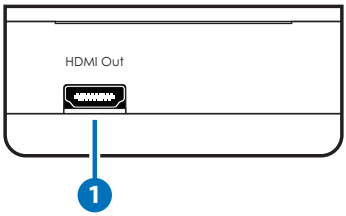


1 **R/L Input**: Connect to the audio source equipment such as a PC/ Laptop or an Hi-Fi equipment with RCA cables.

2 **Optical Input :** Connect to the audio source equipment such as a CD player or an Hi-Fi equipment with an optical cable.

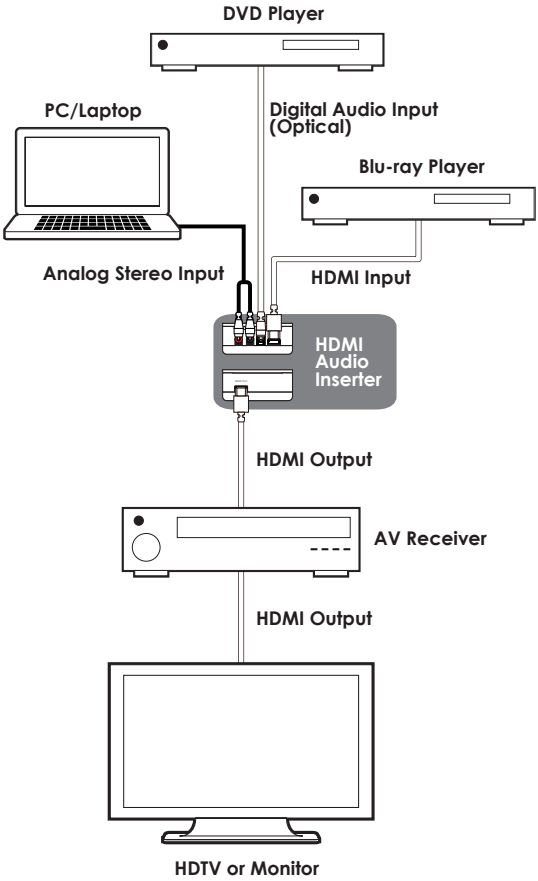
3 **HDMI Input:** Connect to the audio/video source such as a DVD/ Blu-ray player with an HDMI cable.

6.5 Rear Panel



1 **HDMI Out:** Connect to an HDMI display (LCD TV or HD monitor) or AV Receiver to output both video and audio with an HDMI cable.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Input Ports	1×HDMI, 1×Optical (Digital Audio), 1×L/R (Analog Audio)
HDMI Audio Sampling Rate	Up to 192 kHz
Optical Audio Sampling Rate	Up to 48 kHz
Output Port	1×HDMI
HDMI Cable I/O Distance	10 meter, 1080p@12-bit 15 meter, 1080p@8-bit
HDMI Audio Format	LPCM 2/5.1/7.1, Dolby 5.1, DTS 5.1, Dolby Digital+, Dolby TrueHD & DTS-HD Master Audio
Optical Audio Format	LPCM 2, Dolby Digital & DTS Digital Audio 5.1
Power Supply	5V/1 A linear power adaptor (US/EU Standards, CE/FCC/UL Certified) or 5V/1.2A switching power adaptor (with universal plug, CE/FCC/UL certified)
ESD Protection	Human body model: ±8kV (air-gap discharge) ±6kV (contact discharge)
Dimensions	90.7 mm (W)×85.8 mm (D)×34 mm (H)
Weight	107 g
Chassis Material	Plastic
Silkscreen Color	White
Operating Temperature	0 °C~40 °C/32 °F~104 °F
Storage Temperature	−20 °C~60 °C/−4 °F~140 °F
Relative Humidity	20~90 % RH (non-condensing)
Power Consumption	2.7 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
DVI	Digital Visual Interface
HDCP	High-bandwidth Digital content protection
HDMI	High Definition Multimedia Interface

CYPRESS TECHNOLOGY CO., LTD
Home page: http://www.cypress.com.tw